What is claimed is:

| 1 | 1. A method of accessing a group in a clustered computer system, wherein the | | | | |
|----|--|--|--|--|--|
| 2 | clustered computer system includes a plurality of nodes, and wherein the group | | | | |
| 3 | includes a plurality of members resident respectively on the plurality of nodes, the | | | | |
| 4 | method comprising: | | | | |
| 5 | (a) receiving an access request on a first node in the plurality of nodes, | | | | |
| 6 | wherein the access request identifies a cluster-private group name associated | | | | |
| 7 | with the group; and | | | | |
| 8 | (b) processing the access request on the first node to initiate a group | | | | |
| 9 | operation on at least a subset of the plurality of nodes that map to the cluster- | | | | |
| 10 | private group name. | | | | |
| 1 | 2. The method of claim 1, further comprising generating the access request | | | | |
| 2 | with a user job resident on the first node. | | | | |
| 1 | 3. The method of claim 2, further comprising forwarding the access request to | | | | |
| 2 | a clustering infrastructure resident in the first node via a call from the user job. | | | | |
| 1 | 4. The method of claim 1, further comprising: | | | | |
| 2 | (a) generating the access request with a user job resident on a second | | | | |
| 3 | node in the plurality of nodes; and | | | | |
| 4 | (b) processing the access request with a proxy job resident on the | | | | |
| 5 | second node by communicating the access request to the first node. | | | | |
| 1 | 5. The method of claim 4, wherein the proxy job is a member of a cluster | | | | |
| 2 | control group, the method further comprising: | | | | |
| 3 | (a) forwarding the access request from the user job to the proxy job; | | | | |
| 4 | and | | | | |
| 5 | (b) forwarding the access request from the proxy job to a clustering | | | | |
| 6 | infrastructure resident in the second node via a call from the proxy job | | | | |

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on the same node as the user job.

- 6. The method of claim 1, further comprising retrieving the cluster-private
 group name with a user job by accessing a cluster-private data structure.
 7. The method of claim 6, wherein the cluster-private data structure is resident
 - 8. The method of claim 7, wherein the cluster-private data structure is accessible only from the node upon which the cluster-private data structure is resident.
 - 9. The method of claim 8, wherein the cluster-private data structure is accessible only by jobs that are resident on the node upon which the cluster-private data structure is resident.
 - 10. The method of claim 1, wherein initiating the group operation comprises distributing messages to a plurality of group members resident on the nodes that map to the cluster-private group name.
 - 11. The method of claim 10, wherein initiating the group operation further comprises accessing a group address data structure to retrieve a plurality of network addresses associated with the cluster-private group name, wherein distributing messages to the plurality of group members includes sending a message to each of the plurality of network addresses.
 - 12. The method of claim 1, wherein initiating the group operation is performed by a clustering infrastructure resident on the first node.
- 1 13. The method of claim 12, wherein initiating the group operation includes 2 retrieving with the clustering infrastructure a plurality of addresses that are mapped to 3 the cluster-private group name in a data structure that is local to the clustering 4 infrastructure.

- 1 14. The method of claim 1, wherein initiating the group operation includes
- 2 locally resolving on the first node a mapping between the cluster-private group name
- and a plurality of addresses associated with at least the subset of the plurality of
- 4 nodes.

| 1 | 15. An apparatus, comprising: | | | | | |
|---|--|--|--|--|--|--|
| 2 | (a) a memory accessible by a first node among a plurality of nodes in a | | | | | |
| 3 | clustered computer system; and | | | | | |
| 4 | (b) a program resident in the memory and executed by the first node, | | | | | |
| 5 | the program configured to access a group that includes a plurality of members | | | | | |
| 6 | resident respectively on the plurality of nodes by receiving an access request | | | | | |
| 7 | that identifies a cluster-private group name associated with the group, and | | | | | |
| 8 | processing the access request to initiate a group operation on at least a subset | | | | | |
| 9 | of the plurality of nodes that map to the cluster-private group name. | | | | | |
| 1 | 16. The apparatus of claim 15, further comprising a user job configured to | | | | | |
| 2 | generate the access request. | | | | | |
| 1 | 17. The apparatus of claim 16, wherein the program comprises a clustering | | | | | |
| 2 | infrastructure resident on the first node. | | | | | |
| 1 | 18. The apparatus of claim 17, further comprising a proxy job configured to | | | | | |
| 2 | forward the access request from the user job to the clustering infrastructure. | | | | | |
| 1 | 19. The apparatus of claim 15, further comprising: | | | | | |
| 2 | (a) a cluster-private data structure configured to store the cluster- | | | | | |
| 3 | private group name; and | | | | | |
| 4 | (b) a user job configured to access the cluster-private data structure to | | | | | |
| 5 | retrieve the cluster-private group name and generate the access request | | | | | |
| 6 | therefrom. | | | | | |
| 1 | 20. The apparatus of claim 19, wherein the cluster-private data structure is | | | | | |
| 2 | resident on the same node as the user job. | | | | | |
| 1 | 21. The apparatus of claim 20, wherein the cluster-private data structure is | | | | | |
| 2 | accessible only from the node upon which the cluster-private data structure is residen | | | | | |

- 22. The apparatus of claim 15, further comprising a group address data structure configured to store a plurality of network addresses associated with the cluster-private group name, wherein the program is configured to initiate the group operation by accessing the group address data structure to retrieve the plurality of network addresses and sending a message to each of the plurality of network addresses.
- 23. The apparatus of claim 22, wherein the program comprises a clustering infrastructure, and wherein the group address data structure is local to the clustering infrastructure.
 - 24. The method of claim 15, wherein the program is further configured to process the access request by locally resolving on the first node a mapping between the cluster-private group name and a plurality of addresses associated with at least the subset of the plurality of nodes.

| 1 | 25. A clustered computer system, comprising: |
|---|--|
| 2 | (a) a plurality of nodes coupled to one another over a network; |
| 3 | (b) a group including a plurality of members resident respectively on |
| 4 | the plurality of nodes; and |
| 5 | (c) a program resident in a first node among the plurality of nodes and |
| 6 | configured to access the group by receiving an access request that identifies a |
| 7 | cluster-private group name associated with the group, and processing the |
| 8 | access request to initiate a group operation on at least a subset of the plurality |
| 9 | of nodes that map to the cluster-private group name. |

| 26. | Α | program | product, | comprising: |
|-----|---|---------|----------|-------------|
|-----|---|---------|----------|-------------|

- (a) a program resident in the memory and executed by a first node among a plurality of nodes in a clustered computer system, the program configured to access a group that includes a plurality of members resident respectively on the plurality of nodes by receiving an access request that identifies a cluster-private group name associated with the group, and processing the access request to initiate a group operation on at least a subset of the plurality of nodes that map to the cluster-private group name; and
- 27. The program product of claim 26, wherein the signal bearing medium includes at least one of a transmission medium and a recordable medium.

(b) a signal bearing medium bearing the program.